

Water Principles and Criterion DRAFT - For Discussion Purposes Only

Principles	RSB	CSBP	EU RED	RTRS	RSPO	FSC	ISCC
Biofuel operations shall maintain or enhance the quality and quantity of surface and ground water resources, and respect prior formal or customary water rights.	X						
Biomass production shall maintain or improve surface water, groundwater, and aquatic ecosystems.		X					
Good Agricultural Practice. Note: Includes soil, integrated crop management (ICM) techniques, etc.				X			
Use of appropriate best practices by growers and millers					X		
The information referred to in the first subparagraph shall include in particular information on compliance with the sustainability criteria set out in Article 17(2) to (5), appropriate and relevant information on measures taken for soil, water and air protection, the restoration of degraded land, the avoidance of excessive water consumption in areas where water is scarce and appropriate and relevant information concerning measures taken in order to take into account the issues referred to in the second subparagraph of Article 17(7). Note from Communication on practical implementation of the EU biofuels/bioliquids sustainability scheme: The criterion related to agricultural and environmental requirements and standards for EU farmers applies only to biofuels/bioliquids produced from raw materials originating in the EU. Unlike the other criteria, verification of compliance for this criterion is not addressed in the Directive. Member States can be expected to rely on their existing control systems for ensuring that farmers fulfill these requirements.			X				
Forest management shall conserve biological diversity and its associated values, water resources, soils, and unique and fragile ecosystems and landscapes, and, by so doing, maintain the ecological functions and the integrity of the forest.						X	
Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices							X

Water Principles and Criterion DRAFT - For Discussion Purposes Only

Criterion	RSB	CSBP	EU RED	RTRS	RSPO	FSC	ISCC
Management Plan							
Good agricultural practices are implemented to minimize diffuse and localized impacts on surface and ground water quality from chemical residues, fertilizers, erosion or other sources and to promote aquifer recharge. There is monitoring, appropriate to scale, to demonstrate that the practices are effective.				X			
Written guidelines shall be prepared and implemented to: control erosion; minimize forest damage during harvesting, road construction, and all other mechanical disturbances; and protect water resources.						X	
Biofuel operations shall include a water management plan which aims to use water efficiently and to maintain or enhance the quality of the water resources that are used for biofuel operations.	X						
Water Quality							
Biofuel operations shall contribute to the enhancement or maintaining of the quality of the surface and groundwater resources.	X						
Maintain or improve surface and ground water quality.		X					
The quality and supply of surface and ground water is maintained or improved.				X			
Natural Water Courses							
Natural vegetation areas around springs and along natural watercourses are maintained or re-established.				X			X
Aquatic Ecosystems							
Preserve or enhance the functions and services of aquatic ecosystems.		X					
Water Quantity							
Biofuel operations shall not contribute to the depletion of surface or groundwater resources beyond replenishment capacities.	X						
Irrigation and water management practices do not deplete the quantity of surface or ground water		X					
Practices maintain the quality and availability of surface and ground water					X		

Water Principles and Criterion DRAFT - For Discussion Purposes Only

Water Rights	RSB	CSBP	EU RED	RTRS	RSPO	FSC	ISCC
Biofuel operations shall respect the existing water rights of local and indigenous communities.	X						
Program participant uses for irrigation only water for which they held legally valid use rights before commencement of biomass production or rights that have been subsequently acquired through legal means.		X					
The producer respects existing water rights, both formal and customary							X
Erosion							
Program participant adopts conservation practices related to erosion control.		X					
Irrigation							
Where irrigation is used, there is a documented procedure in place for applying best practices and acting according to legislation and best practice guidance (where this exists), and for measurement of water utilization.				X			
The producer can justify the irrigation in light of accessibility of water for human consumption							X
The producer can justify the method of irrigation used in light of water conservation							X
Fertilizer							
Recommendations for application of fertilisers (organic or inorganic) are given by competent, qualified persons							X
Program participant uses a farm gate nitrogen budget to balance nitrogen entering and leaving operation with minimum amount of residual nitrogen left on operation, or adopts a comprehensive set of conservation practices.		X					
Program participant adopts a comprehensive set of conservation practices that address phosphorus management if fertilizer (organic or synthetic), sludges or manure is applied. Program participant takes steps necessary (either through reduced application or additional mitigation measures) to achieve a score of low or medium risk on the NRCS Phosphorus Index.		X					

Water Principles and Criterion DRAFT - For Discussion Purposes Only

Chemical Use	RSB	CSBP	EU RED	RTRS	RSPO	FSC	ISCC
None of the chemicals recorded in the WHO's 1a and 1b lists shall be used	X						
World Health Organization Type 1A and 1B and chlorinated hydrocarbon pesticides; pesticides that are persistent, toxic or whose derivatives remain biologically active and accumulate in the food chain beyond their intended use; as well as any pesticides banned by international agreement, shall be prohibited. If chemicals are used, proper equipment and training shall be provided to minimize health and environmental risks.						X	
Waste Disposal							
Chemicals, containers, liquid and solid non-organic\ wastes including fuel and oil shall be disposed of in an environmentally appropriate manner at off-site locations.						X	
Program participant disposes of agricultural chemicals, containers, and liquid or solid non-organic wastes, including fuel and oil, off-site and in compliance with federal and state laws.		X					